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20792	7590	09/01/2006		EXAMINER	
		IBLEY & SAJOVI	STITZEL, DAVID PAUL		
PO BOX 37428 RALEIGH, NC 27627				ART UNIT PAPER NUMBER	
	•			1616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/651,876	BASTOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	David P. Stitzel, Esq.	1616				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowa	, -					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-20 are subject to restriction and/or 	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Education of the Education of the drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	·	·				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	. 4) Interview Summary	(PTO_413)				
2) Notice of References Cited (PTO-532) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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OFFICIAL ACTION

Restriction/Election

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- I. Claims 1-9 are drawn to a method of treating a beta-herpes virus infection in a subject
- in need thereof, wherein said method comprises administering to said subject a
 - therapeutically effective amount of a compound of Formula I, as classified in class 424.
 - subclass 230.1.
- II. Claims 10-20 are drawn to a method of treating an alpha-herpes virus infection in a
 - subject in need thereof, wherein said method comprises administering to said subject a
 - therapeutically effective amount of a compound of Formula II, as classified in class
 - 424, subclass 231.1.
- 1. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not

disclosed as capable of use together and they have different modes of operation, different functions, or

different effects. See MPEP §§ 802.01 and 806.06. In the instant case, the method claimed in

Invention I has a function and effect of treating a beta-herpes virus infection in a subject via the

administration of a compound of Formula I to said subject, whereas the method claimed in Invention II

has a function and effect of treating an alpha-herpes virus infection in a subject via the administration

of a compound of Formula II to said subject, wherein the compound of Formula I is patentably distinct

from the compound of Formula II because they possess different molecular structures, as well as

different physicochemical properties. As a result, the method claimed in Invention I has a materially

different function and effect from the method claimed in Invention II, and are therefore unrelated.

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Because these inventions are independent and distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the prior art search required for each respective invention would be divergent, thereby causing an undue search burden. As a result, restriction for examination purposes as indicated is proper. Applicants are therefore required under 35 U.S.C. § 121 to elect a single invention for prosecution on the merits.

Claims 1, 2, 10 and 11 are generic to a plurality of disclosed patentably distinct species of disease caused by herpesvirus of the Family Herpesviridae comprising: 1. herpes simplex virus (i.e., HSV-1 and HSV-2) of the Subfamily Alphaherpesvirinae, Genus Simplexvirus; 2. HHV-3 (a.k.a., varicella zoster virus) of the Subfamily Alphaherpesvirinae, Genus Varicellovirus; 3. CHV-1 (a.k.a., canine herpesvirus simiae) of the Subfamily Alphaherpesvirinae, Genus Varicellovirus; 4. HHV-5 (a.k.a., cytomegalovirus) of the Subfamily Betaherpesvirinae, Genus Cytomegalovirus; 5. HHV-6 (a.k.a., roseolovirus) and HHV-7 of the Subfamily Betaherpesvirinae, Genus Roseolovirus; and 6. HHV-8 (a.k.a., rhadinovirus) of the Subfamily Gammaherpesvirinae, Genus Rhadinovirus. It should be noted however that rhadinovirus is in fact a gamma-herpes virus and not an alpha-herpes virus as instantly claimed. The disclosed species of herpesvirus are patentably distinct, each from the other, because they are classified in different subfamilies, genera, and species as indicated hereinabove. Therefore, restriction for examination purposes as indicated is proper.

Even though this requirement is traversed, Applicants are further required under 35 U.S.C. § 121 to elect, for search purposes only, a single disclosed patentably distinct species of herpesvirus (i.e., herpes simplex virus, namely HSV-1 and HSV-2) for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held allowable. Currently, claims 1, 2, 10 and 11 are generic.

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3. Claims 1 and 3-9 are generic to a plurality of disclosed patentably distinct species of a compound of Formula I, wherein said compound of Formula I comprises the following patentably distinct subspecies, as defined within each respective substituent and/or moiety: 1. R¹ (e.g., a hydrogen atom or an alkyl group); 2. R² (e.g., a hydrogen atom or an alkyl group); 3. X¹ (e.g., an oxygen atom or a sulfur atom); 4. X² (e.g., an oxygen atom or a sulfur atom); 5. X³ (e.g., an oxygen atom or a sulfur atom); 6. X⁴ (e.g., an oxygen atom or a sulfur atom); 7. Y (e.g., a nitrogen, oxygen, sulfur or carbon atom); 8. R³ (e.g., a hydrogen atom or an alkyl group); and 9. R⁴ (e.g., a hydrogen atom or an alkyl group). The disclosed subspecies, as defined within each respective substituent and/or moiety, are patentably distinct, each from the other, because they possess different molecular structures, as well as different physicochemical properties. Therefore, restriction for examination purposes as indicated is proper.

Even though this requirement is traversed, in the event that Applicants elect Invention I for prosecution on the merits, Applicants are required under 35 U.S.C. § 121 to elect, for search purposes only, a single disclosed patentably distinct species of a compound of Formula I, by defining a single specific patentably distinct subspecies for each respective substituent and/or moiety selected from the group consisting of: 1. R¹ (e.g., a methyl group); 2. R² (e.g., a methyl group); 3. X¹ (e.g., an oxygen atom); 4. X² (e.g., an oxygen atom); 5. X³ (e.g., an oxygen atom); 6. X⁴ (e.g., an oxygen atom); 7. Y (e.g., a nitrogen atom); 8. R³ (e.g., a methyl group); and 9. R⁴ (e.g., a methyl group), for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held allowable. Currently, claims 1 and 3-9 are generic. In addition to including a listing of all claims, as well as any claims subsequently added thereto, which are readable upon the elected species, Applicant should also include a chemical structure of the elected compound, if a chemical structure of said compound is not already contained within the instant specification. If Applicant is unable to provide the chemical

structure of said compound, the CAS (Chemical Abstract Service) number assigned to said compound will suffice.

4. Claims 10 and 12-20 are generic to a plurality of disclosed patentably distinct species of a compound of Formula II, wherein said compound of Formula II comprises the following patentably distinct subspecies, as defined within each respective substituent and/or moiety: 1. R¹ (e.g., a hydrogen atom, an alkyl group, a hydroxy group, an alkoxy group, or a halogen atom); 2. R² (e.g., a hydrogen atom, an alkyl group, a hydroxy group, an alkoxy group, or a halogen atom); 3. W (e.g., a nitrogen atom or a CR⁵ group); 4. R⁵ (e.g., a hydrogen atom, a hydroxy group, an alkyl group, an alkoxy group, or a halogen atom); 5. X³ (e.g., an oxygen atom or a sulfur atom); 6. X⁴ (e.g., an oxygen atom or a sulfur atom); 7. Y (e.g., a nitrogen, oxygen, sulfur or carbon atom); 8. R³ (e.g., a hydrogen atom or an alkyl group); and 9. R⁴ (e.g., a hydrogen atom or an alkyl group). The disclosed subspecies, as defined within each respective substituent and/or moiety, are patentably distinct, each from the other, because they possess different molecular structures, as well as different physicochemical properties. Therefore, restriction for examination purposes as indicated is proper.

Even though this requirement is traversed, in the event that Applicants elect Invention II for prosecution on the merits, Applicants are required under 35 U.S.C. § 121 to elect, for search purposes only, a single disclosed patentably distinct species of a compound of Formula II, by defining a single specific patentably distinct subspecies for each respective substituent and/or moiety selected from the group consisting of: 1. R¹ (e.g., a methyl group); 2. R² (e.g., a methyl group); 3. W (e.g., a CR⁵ group); 4. R⁵ (e.g., a methyl group); 5. X³ (e.g., an oxygen atom); 6. X⁴ (e.g., an oxygen atom); 7. Y (e.g., a nitrogen atom); 8. R³ (e.g., a methyl group); and 9. R⁴ (e.g., a methyl group), for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held allowable. Currently,

claims 10 and 12-20 are generic. In addition to including a listing of all claims, as well as any claims subsequently added thereto, which are readable upon the elected species, Applicant should also include a chemical structure of the elected compound, if a chemical structure of said compound is not already contained within the instant specification. If Applicant is unable to provide the chemical structure of said compound, the CAS (Chemical Abstract Service) number assigned to said compound will suffice.

Conclusion to Restriction Requirement

The Examiner has required restriction between unrelated methods of using claims.

Applicants are advised that a fully responsive reply to this requirement must include an explicit identification of not only a single disclosed patentably distinct species of herpesvirus (i.e., herpes simplex virus, namely HSV-1 and HSV-2), but also a single disclosed patentably distinct species of a compound of either Formula I, or Formula II, by defining a single specific patentably distinct subspecies for each respective substituent and/or moiety selected from the group consisting of: 1. R^1 (e.g., a methyl group); 2. R^2 (e.g., a methyl group); 3. X^1 (e.g., an oxygen atom) (in the event that Invention I is elected); 4. X^2 (e.g., an oxygen atom) (in the event that Invention I is elected); 5. W (e.g., a CR^5 group) (in the event that Invention II is elected); 6. R^5 (e.g., a methyl group) (in the event that Invention II is elected); 7. X^3 (e.g., an oxygen atom); 8. X^4 (e.g., an oxygen atom); 9. Y (e.g., a nitrogen atom); 10. R^3 (e.g., a methyl group); and 11. R^4 (e.g., a methyl group), that is elected consonant with this requirement, and a listing of all claims, including any claims subsequently added thereto, which are readable upon the elected species. An argument that a claim is allowable or that claims are not generic is considered nonresponsive unless accompanied by an explicit election of a specific species and subspecies. See 37 C.F.R. § 1.143.

Should Applicant traverse on the ground that the species are not patentably distinct, Applicant should submit evidence or identify such evidence now of record showing the species and subspecies to

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be obvious variants over one another or clearly admit on the record that this is the case. In either instance, if the Examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103(a) of the other inventions.

If claims are added after the election, Applicant must explicitly indicate which claims are readable upon the elected species. See MPEP § 809.02(a). Amendments submitted after final rejection are governed by 37 CFR 1.116, whereas amendments submitted after allowance are governed by 37 CFR 1.312.

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR § 1.48(b) if one or more of the currently named Inventors is no longer an actual Inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR § 1.48(b) and by the fee required under 37 CFR § 1.17(i).

A telephone call was made to the attorney of record, namely Mr. Kenneth D. Sibley, Esq. on August 28, 2006, to request an oral election to the above restriction requirement, but did not result in an election being made.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to David P. Stitzel, M.S., Esq., whose telephone number is 571-272-8508. The Examiner can normally be reached on Monday-Friday, from 7:30AM-6:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Johann Richter, Ph.D., Esq., can be reached at 571-272-0646. The central fax number for the USPTO is 571-273-8300.

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